INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2005/000035

A.	CLASSIFICATION OF SUBJECT MATTER					
Int. Cl. 7;	G01N 21/35, G01J 3/42, 3/45, G08G 5/04					
According to	International Patent Classification (IPC) or to both r	national classification and IPC				
В.	FIELDS SEARCHED					
Minimum doci	imentation searched (classification system followed by cla	ssification symbols)				
Documentation	n searched other than minimum documentation to the exten	nt that such documents are included in the fields search	hed .			
	base consulted during the international search (name of of DWPI; SO2 OR SULPHUR DIOXIDE; WHUMIDITY; DETECT+ OR IMAG+ OR SENINFRARED OR IR OR TIR; TERRESTRIAI BASED", SUBTRACT+ OR COMPENSAT+ SPECTR+, +BAND+ OR WAVENUMBER? OR FEATURE? OR SIGNATURE? OR LINE MULTISPECTR+ and similar keywords Google Scholar: SULPHUR DIOXIDE; Waccombinations of keywords	VATER OR H2O OR CLOUD? OR M IS+ OR DISTINGUISH+ OR IDENTIF+OR L OR AIRBORNE OR AHEAD OR SKY OR CORRECT+ OR DISCRIMINAT+ OF OR WAVELENGTH? OR ABSORPTION C? OR FREQUENC+ OR FILTER+ OR +C	R G01N-021/IC; OR "GROUND R ELIMINAT+; OR EMISSION CHANNEL? OR			
C	DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.			
x	PRATA A. J., ROSE W.I., SELF S. and O'E Dioxide Measurements From TOVS Data: A Volcanism and Climate, Volcanism and the E Oppenheimer, editors; Geophysical Monogra 2003 by the American Geophysical Union; paits description; section 3, including subsection	New Tool for Studying Explosive Earth's Atmosphere, Alan Robock, Clive ph 139, ISBN 0-87590-998-1; Copyright ages 75-92, see in particular Figure 1 and	1-20			
X F	Further documents are listed in the continuation	of Box C X See patent family anne	ex .			
"A" docume not cons "E" earlier a internati "L" docume or which	pplication or patent but published on or after the "X" doc onal filing date aloo nt which may throw doubts on priority claim(s) "Y" doc in scited to establish the publication date of corrections.	or document published after the international filing date or profilict with the application but cited to understand the principle derlying the invention cannot cannot of particular relevance; the claimed invention cannot cannot be considered to involve an inventive step when the consument of particular relevance; the claimed invention cannot olve an inventive step when the document of particular relevance; the claimed invention cannot olve an inventive step when the document is combined with the documents, such combination being obvious to a person sketch	be considered novel document is taken be considered to one or more other			
"O" docume						
"P" document published prior to the international filing date but later than the priority date claimed						
Date of the actual completion of the international search Date of mailing of the international search report						
	22 March 2005 Name and mailing address of the ISA/AU Authorized officer Authorized officer					
	Name and mailing address of the ISA/AU Authorized officer AUSTRALIAN PATENT OFFICE					
PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Telephone No. (02) 6283 2308			•			

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IAP11 Rec'd PCT/PTO 17 JUL 2006

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2005/000035

	PC1/AU2005	/000035				
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages					
	US 5654700 A (PRATA et al.) 5 August 1997					
Х						
P, X	WATSON I.M., REALMUTO V.J., ROSE W.L, PRATA A.J., BLUTH G.J.S., GU Y., BADER C.E., YU T., Thermal infrared remote sensing of volcanic emissions using the moderate resolution imaging spectroradiometer, <i>Journal of Volcanology and Geothermal Research 135</i> (2004) pages 75-89, (available online from 18 May 2004); see Figure 1(D) and Table 1 (channels 28 and 29)					
 A	PUGNAGHI S., TEGGI S., CORRADINI S., BUONGIORNO M.F., MERUCCI L., BOGLIOLO M.P., Estimation of SO ₂ abundance in the eruption plume of Mt. Etna using two MIVIS thermal infrared channels: a case study from the Sicily-1997 Campaign, Bull Volcanol (2002) 64, pages 328-337, see abstract					
A	US 3805074 A (MCCORMACK) 16 April 1974 Abstract, columns 5-6					
Α.	Patents Abstracts of Japan JP 60-011122 A (SHIMADZU CORP) 21 January 1985 Abstract					
	Derwent Abstract Accession No 83-754335/36, Class S03, EP 0087077 A (SIEMENS AG) 31 August 1983 Abstract					
P, A	US 6822236 B1 (NELSON et al.) 23 November 2004 Abstract, Column 5, lines 12-21 and entire Column 8					
	·					

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU2005/000035

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						
	-						· ·	
US	5654700	ΑŬ	76657/91	CA	2079812	EP	0525007	
		HK	1002938	SG	46261	US	5602543	
		wo	9115739				•	
US	3805074	CA	1011129	DE	2362935	FR	2212927	
		JP	49099082					
JР	60011122							
EP	0087077	DE	3206427	JР	58156837			
US	6822236	US	6750453	-	,		•	

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX